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Energeticheskiy Byulleten', No 3, 1950, pp 26-27.

CONFERENCE ON PROTECTION OF UNDERGROUND METALLIC STRUCTURES FROM CORROSION

N. A. Tsekun

Because of the growing use of cables in cities and metallic supports for high-voltage transmission lines, problems of protection from corrosion have become vital to the national economy as a whole and in particular to power engineers working with cables and electric transmission lines. These problems were considered at the scientific and technical conference which met in Baky. in November 1949 to discuss the protection of pipes and cables from corrosion.

The conference, convoked by the Azerbaydzhan Branch of NITO (Scientific and Technical Society) of Power Engineers and the Azerbaydzhan Industrial Institute imeni M. Asimbakov, was well attended.

Papers were read on the following subjects: theory of corrosion processes and methods of designing electrical protection (Docent V. S. Kal'man, Prof I. N. Frantsevich, Lordkipanidze, Candidate in Technical Sciences); employment of electrical protection for cables and conduits, methodology of inspecting corrosion states and protective apparatus (N. A. Tsekun, Candidate in Technical Sciences, Docent A. A. Spitsin, Engr V. A. Pritula, L. M. Hogov, Candidate in Technical Sciences); investigation of soil corrosion and insulating coatings (Docent V. F. Negreyev, Engr M. D. Dzhafarov, Engr M. S. Trifel'); the immediate tasks connected with theory and practice in protection and the organization of future work for protection against corrosionn (Docent V. S. Kal'man, N. A. Tsekun, Candidate in Technical Sciences, Engr D. S. Gadzhiyev).

After an extensive exchange of opinions and experiences, a resolution was passed, expressing the bases on which successful work might be accomplished in controlling corrosion of underground structures.

The conference noted that "electrical methods of protecting cables and conduits combined with insulating coatings ensure their preservation for a long time, are extremely effective, and have completely justified their use."

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In the scientific field, the conference pointed out the necessity for:

- 1. Preparing a composition for anticorrosion cable coatings and a composition for protective coverings for pipes
 - 2. Investigating electrode protection of underground metallic structures
 - 3. Investigating combined cathode and electrode protection
- 4. Investigating joint drainage protection for communication and power cables and working out many other problems connected with increased effectiveness of protection.

In the organizational field, the conference recommended that all enterprises using metallic structures should form groups or brigades to carry out the projected investigation of corrosion conditions in underground structures and methods of maintaining protective installations.

With regard to the training of specialists in corrosion control, the conference felt it necessary to:

- 1. Request the Ministry of Higher Education USSR to provide for a study of problems relating to control of corrosion in the higher technical schools and in the courses for improving the qualifications of engineers and technicians
- 2. Recommend to NITO branches that they organize, for industrial engineers, courses and lectures on protecting underground metallic structures from corrosion.

It was resolved to organize, in connection with the All-Union NITO, a committee on the protection of underground metallic structures from corrosion for the purpose of collaborating on a study of corrosion phenomena in pipes and cables, ascertaining methods of practical protection, and exchanging experiences.

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